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Det Internasjonale Videnskapsråd  
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Den Internasjonale Assosiasjon for Videnskapelig Hydrologi

Conseil International des Unions Scientifiques  
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Association Internationale d'Hydrologie Scientifique

# HYDROLOGISK BIBLIOGRAFI FOR ÅRENE 1940—1950

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Composé par ingénieur H. Klæboe

Edité par Norges Vassdrags- og Elektrisitetsvesen

## Institusjoner.

### Institutions.

Det Norske Meteorologiske Institutt	L'Institut météorologique de Norvège
Det Norske Videnskapsakademi	L'Académie des Sciences Norvégienne
Universitetet i Bergen	L'Université de Bergen
Norges Vassdrags- og Elektrisitetsvesen	Le Département des Cours d'eaux et d'Electricité de Norvège
Norges Geologiske Undersøkelse	L'Institut géologique de Norvège

## Publikasjoner.

### Publications.

Geofysiske Publikasjoner	Publications géophysiques
Meteorologiske Annaler	Les Annales météorologiques
Bergens Museums Årbok	L'Annuaire du Musée de Bergen
Teknisk Ukeblad	Revue Technique hebdomadaire
Meddelelser fra Vegdirektøren	Memoires de la Voirie Norvégienne
Norsk Geografisk Tidsskrift	Revue géographique Norvégienne
Naturen	Naturen (La Nature)

# For Reference

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# I. Hydrometeorologi — Hydrométéorologie.

Det Norske Meteorologiske Institutt.

*Nedbøriagttagelser i Norge* (Precipitation in Norway)  
1939—1947, Oslo 1940—1950 Each volume 54 Pages and  
1 Map.

These 9 year-books contain monthly and annual averages for the stations, daily heights for about 1/3 of the stations, figures in per cent of normal for about 1/10 of the stations, together with information about snow depths etc.

---

Schou, Georg.

*Über den Zusammenhang des Frühlingshochwassers in Süd-Norwegen mit den Meteorologischen Elementen.*

Geofysiske Publikasjoner Vol. XII No. 16.

Det Norske Videnskaps-Akademi i Oslo.

Oslo 1940. 30 Pages. 15 Figures.

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Hesselberg, Th. und Birkeland, B. I.

*Säkulare Schwankungen des Klimas von Norwegen. Der Niederschlag. T. 2.*

Geofysiske Publikasjoner Vol. XIV No. 5.

Det Norske Videnskaps-Akademi i Oslo. Oslo 1940.

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Spinnangr, Gunnar.

*On Local Summer-Showers in South-Eastern Norway.*

Meteorologiske Annaler Bind I (Vol. I) No. 8.

Det Norske Meteorologiske Institutt.

Oslo 1942. 55 Pages.

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## I. Hydrometeorologi — Hydrométéorologie.

Halvorsen, Inger.

*On the Distribution of Precipitation over South-Eastern Norway, when Fronts pass from the West and from the South-West.*

Meteorologiske Annaler Bind I (Vol. I) No. 11.

Det Norske Meteorologiske Institutt.

Oslo 1943. 42 Pages.

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Spinnangr, Finn.

*Synoptic Studies on Precipitation in Southern Norway.*

*I. Instability Showers.*

Meteorologiske Annaler Bind 1. (Vol. I) No. 12.

Det Norske Meteorologiske Institutt.

Oslo 1943. 33 Pages.

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Spinnangr, Finn.

*Synoptic Studies on Precipitation in Southern Norway.*

*II. Front Precipitation.*

Meteorologiske Annaler Bind I (Vol. I) No. 17.

Det Norske Meteorologiske Institutt.

Oslo 1943. 34 Pages.

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Bruun, Inger.

*Further synoptic Studies on the Distribution of Precipitation in South-Eastern Norway.*

Meteorologiske Annaler Bind 2 (Vol. 2) No. 2.

Det Norske Meteorologiske Institutt.

Oslo 1944. 37 Pages.







## I. Hydrometeorologi — Hydrométéorologie.

Hesselberg, Th. und Birkeland, B. I.

*Säkulare Schwankungen des Klimas von Norwegen T. 4.  
Die Feuchtigkeit.*

Geofysiske Publikasjoner Vol. XV. No. 2.

Det Norske Videnskaps-Akademi i Oslo. Oslo 1944.

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Hesselberg, Th.

*Zur Wirkung des Schirms auf die Niederschlagsmessungen.*

Meteorologiske Annaler Bind 2 (Vol. 2) No. 4.

Det Norske Meteorologiske Institutt.

Oslo 1945. 16 Pages.

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Spinnangr, Finn and Eide, Odd.

*On the Measurement of Precipitation. I. Fanaråken Meteorological Observatory.*

Meteorologiske Annaler Bind 2 (Vol. 2) No. 5.

Det Norske Meteorologiske Institutt.

Oslo 1945. 14 Pages.

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Spinnangr, Finn and Eide, Odd.

*On the Measurement of Precipitation. II. Lista Meteorological Station.*

Meteorologiske Annaler Bind 2 (Vol. 2) No. 8.

Det Norske Meteorologiske Institutt.

Oslo 1947. 16 Pages.



## I. Hydrometeorologi — Hydrométéorologie.

Johansen, Sverre.

*On the Distribution of Precipitation in Northern Norway in Various Weather Stations.*

Meteorologiske Annaler Bind 2 (Vol. 2) No. 11.

Det Norske Meteorologiske Institutt.

Oslo 1947. 43 Pages.

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Godske, C. L., Marstrander, J. H. og Schieldrup, Paulsen H.

*Forstmeteorologiske Undersøkelser i Os Prestegaardsskog sommeren 1944.* (Forest-Meteorological Investigations at Os during the Summer 1944.)

Bergens Museums Årbok 1945.

Bergens Museum. Bergen 1947. 16 Pages.

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Det Norske Meteorologiske Institutt.

*Nedbøren i Norge 1895—1943.* (Precipitation in Norway 1895—1943.) *I. Middelveier og Maksima.* (Averages and maxima.) *II. Nedbørhøyder for måneder, årstider og år.* (Monthly, Seasonal and Annual Heights.)

Oslo 1949. 440 Pages. With Norwegian and English text.

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Godske, C. L. and Schieldrup, Paulsen H.

*The Forest Precipitation.*

Universitetet i Bergen, årbok (Year-book) 1948.

Bergen 1950. 40 Pages.

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## II. Vassdrag — Cours d'eau.

Norges Vassdrags- og Elektrisitetsvesen.

*Vannstandsobservasjoner i Norge 1939—1948.* (Water-level Observations in Norway 1939—1948.)

Oslo 1940—1950. (250—300. Pages.)

In addition to the water-level observations, these 10 year-books contain a summary of the run-off conditions, tables showing the monthly discharge for a number of stations expressed in liters/second/km.<sup>2</sup>, and in % of the average, together with some discharge tables and a list of discharge measurements.

---

Klæboe, Halvdan.

*Lavvannsperioden 1939—40. En Hydrologisk oversikt.*  
(The low-water Period 1939—40. A Hydrological Survey.)

Teknisk Ukeblad No. 38 1940.

Oslo 1940. 3 Pages.

The paper gives a summary of the run-off conditions in southern Norway during the extremely dry winter 1939—40.

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Søgner, Reinhardt.

*Beregning av sjøers naturlige reguleringsevne. Flommer i Norske Vassdrag.* (Computation of the Natural Regulation Ability of Lakes, Floods in Norwegian Rivers.)

Eget forlag. (Own Edition.)

Oslo 1942. 58 Pages.

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Norges Vassdrags- og Elektrisitetsvesen.

*Utbygd Vannkraft i Norge.* (Developed Water Power in Norway.)

Oslo 1946. 119 Pages. 2 Maps.

The publication gives information about the Water Power developed before 1/1 1944. The tables have columns for drainage areas, reservoirs, discharge, heads, together with installations etc. Norwegian and English text.



## II. Vassdrag — Cours d'eau.

Norges Vassdrags- og Elektrisitetsvesen.

*Hydrografiske Undersøkelser i Norge.* (Hydrological Investigations in Norway.)

Utdrag av det hydrografiske materiale for 40 års perioden 1/9 1900—1/9 1940. (Extract of the hydrological Material covering the 40 year Period 1/9 1900—1/9 1940.)

Oslo 1947. 225 Pages. 36 Pl. 2 Maps.

In addition to a list of the total number of gauging stations, the publication contains the following tables: Characteristic data in Storage Lakes, characteristic spring floods, characteristic monthly run-offs, characteristic annual run-offs, Normal run-offs and normal precipitation. List of regulation curves. Norwegian and English text.

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Klæboe, Halvdan.

*Glommas Bifurkasjon ved Kongsvinger.* (The Bifurcation of the River Glomma at Kongsvinger.)

Norsk Geografisk Tidsskrift Bind XI. (Vol. XI.)

Oslo 1947. 10 Pages. (Resumé en Français.)

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Rynning, Nielsen Mentz.

*Skredet på Digranes i 1943.* (The Slide at Digranes in 1943.)

Norsk Geografisk Tidsskrift Bind XI. (Vol. XI.)

Oslo 1947. 7 Pages.

The paper describes the effect of a great flood wave, which occurred on February 19, causing much damage. The flood-wave was occasioned by an avalanche running down into a lake.

---

Owe, Ove.

*Stor-Oslos Vannforsyning.* (The Water Supply of Oslo.)

Teknisk Ukeblad No. 3—4 1948.

Oslo 1948. 13 Pages.

In addition to an historical and technical report, the paper gives information about the water consumption, which from 1920 to 1947 increased from 207 to 463 liters/day pr. individual. The future consumption is expected to rise to 700 liters/day/individ. The main sources are some small river basins in the wood-lands north of Oslo.





## II. Vassdrag — Cours d'eau.

Klæboe, H.

*Fluctuations in Run-off.*

Procès-verbaux des séances de l'Assemblée Générale d'Oslo 1948.

The Paper describes the connection between the run-off variations of the river Glomma and the sun-spot curve.

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Klæboe, H.

*Hydrological Conditions in Norway.*

Procès-verbaux des séances de l'Assemblée Générale d'Oslo 1948.

Lecture at the congress in connection with the Presidential address. Also: Norsk Geografisk Tidsskrift Vol. X. No. 1. Oslo 1949. (More complete.)

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Jerstad, Johan.

*Flaum ved damsprengjing.* (Floods caused by Bursting of Dams.)

Teknisk Ukeblad No. 40. 1949.

Oslo 1949. 3 Pages.

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Gran, Olsson R.

*Forløpet av konsolideringen i et slamsjikt som funksjon av avleirings hastigheten.*

(The Consolidation Process in a Silt Layer as a Function of the Deposit Velocity.)

Teknisk Ukeblad No. 40. 1949.

Oslo 1949. 4 Pages.



### III. Sjøer — Lacs.

Strøm, K. M.

*Tyrifjord Geomorphology.*

Norsk Geografisk Tidsskrift Bind VIII (Vol. VIII) 1940.

Oslo 1940. 9 Pages.

Relation of a lake basin and its surroundings to the geological structure of the region.

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Strøm, K. M.

*Die tiefsten norwegischen Seen.*

Geol. Meere Binnengew. No. 4. 1941. 2 Pages.

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Strøm, K. M.

*Hadeland Lakes. A limnological Outline.*

Det Norske Videnskaps-Akademi i Oslo. Mat.-Naturv. klasse 1941. No. 7.

Oslo 1942. 42 Pages.

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Krog, Ole.

*Rødenessjøens Morfologi.* (The Morphology of the Rødenes Lake.) Norsk Geografisk Tidsskrift Bind X (Vol. X) 1944.

Oslo 1944. 5 Pages.





### III. Sjøer — Lacs.

Strøm, K. M.

*Vintertemperaturer i 2 innsjøer.* (Winter-Temperatures in 2 lakes.)

Naturen No. 68. 1944.

Bergens Museum.

Bergen 1944.

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Strøm, K. M.

*High Mountain Limnology.*

Det Norske Videnskaps-Akademi i Oslo. Avh. No. 1. 1944.

Oslo 1944. 24 Pages.

Some observations on stagnant and running waters of the Rondane Area.

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Strøm, K. M.

*Heat in a South-Norwegian Lake.*

Geofysiske Publikasjoner Vol. XVI. No. 3.

Det Norske Videnskaps-Akademi i Oslo.

Oslo 1944. 23 Pages.

Studies on Lake Eikeren during the years 1934 and 1935.

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Strøm, K. M.

*The Temperature of Maximum Density in Fresh Waters.*

Geofysiske Publikasjoner Vol. XVI. No. 8.

Det Norske Videnskaps-Akademi i Oslo.

Oslo 1945. 14 Pages.

An attempt to determine the lowering of the temperature with increased pressure from observations in deep lakes.



### III. Sjøer — Lacs.

Strøm, K. M.

*Lakes with Stagnant Deep.*

Det Norske Videnskaps-Akademi i Oslo, Skrifter No. 1.  
1945.

Oslo 1945. 16 Pages.

The meromictic lake type in Norway and the question of measuring productivity by hypolimnetic oxygen deficit.

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Strøm, K. M. and Østtveit, H.

*Blankvatn. A Meromictic Lake near Oslo.*

Det Norske Videnskaps-Akademi i Oslo, Skrifter 1948.  
Oslo 1948. 41 Pages.

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Holmsen, Gunnar.

*En ny bredemt sjø i Svartisen.* (A new Glacier-dammed Lake in Svartisen.)

Norsk Geografisk Tidsskrift Bind XII (Vol. XII) 1949.  
Oslo 1949. 15 Pages. Summary in English.

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Otnes, Jakob.

*Seiches i Storsjøen i Rendalen.* (Seiches in the Lake Storsjø.)

Norsk Geografisk Tidsskrift Bind XII (Vol. XII) 1950.  
Oslo 1950. 14. Pages. 1 Map. Summary in English.





#### IV. Snø og is — Neiges et Glaces.

Schou, Georg.

*Breforandringer i Vest-Norge.* (Glacier Variations in Western-Norway.)

Naturen 1940.

Bergens Museum, Bergen 1940.

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Rogstad, Olaf.

*Jostedalsbreens tilbakegang.* (The Recession of the Jostedal Glacier.)

Norsk Geografisk Tidsskrift Bind VIII (Vol. VIII) No. 8.

Oslo 1941. 21 Pages. Summary in English.

An attempt to calculate the decrease in the glacier mass during the years 1900—1940.

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Rogstad, Olaf.

*Våre breers tilbakegang.* (The Recession of Norwegian Glaciers.)

Norsk Geografisk Tidsskrift Bind IX (Vol. IX) No. 4.

Oslo 1942. 29 Pages. Summary in English.

The Paper deals with: I. The recession of Svartisen and the influence upon the available flow in the Glomfjord Power Plant. II. The recession of the glacier Folgefonnen and III. The Jostedal glacier.

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Devik, Olaf.

*Supercooling and Ice Formation in Open Waters.*

Geofysiske Publikasjoner Vol. XIII. No. 8.

Det Norske Videnskaps-Akademi i Oslo. Oslo 1942.

Also: Procès-verbaux des Séances de l'Assemblée Générale d'Oslo 1948.



#### IV. Snø og is — Neiges et Glaces.

Rogstad, Olaf.

*Breenes virkning på den nyttbare vannmengde ved kraftverkene i Glåma.* (The Effect of the Glaciers on the available Flow in the Power Plants of Glåma.)

Norsk Geografisk Tidsskrift Bind XII (Vol. XII) No. 1.  
Oslo 1948. 12 Pages.

The paper deals with the effect of the glacier-melting on the discharge of the river Glomma. This effect was unusually great in the very dry year 1947—1948.

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Fægri, Knut.

*Brevariasjoner i Vest-Norge i de siste 200 år.* (On the Variations of Western Norwegian Glaciers during the last 200 years.)

Naturen no. 7—8 1948. Bergens Museum, Bergen 1948.  
14 Pages.

Also: Procès-verbaux des Séances de l'Assemblée Générale d'Oslo 1948.

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Jerstad, Johan.

*Snømåling på Hardangervidda.* (Snow-Measurements at the Hardanger Plain.)

Teknisk Ukeblad No. 10 1948.  
Oslo 1948. 3 Pages.

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Devik, Olaf.

*Ice Formation in Lakes and Rivers.*

Procès-verbaux des Séances de l'Assemblée Générale d'Oslo 1948. 8 Pages.



V. Grunnvann og kilder — Eaux-souterraines  
et sources.

Holmsen, Gunnar.

*Grunnvannsbrønner.* (Ground-water Wells.)

Småskrift No. 4 Norges Geologiske Undersøkelser. Oslo  
1940.

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Eriksen, Arne.

*Teleproblemet, dets fysikalske og tekniske side.* (Frozen  
Soil Problems, from Physical and Technical Point of view.)  
Naturen 1940. Bergens Museum, Bergen 1940.

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Orvin, Anders K.

*Hvordan oppstår jordbunnsis?* (The Formation of Under-  
ground Ice.)

Norsk Geografisk Tidsskrift Vol. VIII No. 8.

Oslo 1941. 13 Pages. With an English Summary.

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Barth, Tom F. W.

*Geysirer og Geysirteorier.* (Geysirs and Geysir-Theo-  
ries.)

Naturen 1941. Bergens Museum, Bergen 1941.





V. Grunnvann og kilder — Eaux-souterraines  
et sources.

Eriksen, Arne.

*Effektiv bekjempelse av telehivningen.* (Effective Struggle against the Swelling of Frozen Soil.)

Teknisk Ukeblad No. 1. 1941.

Oslo 1941. 7 Pages.

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Orvin, Anders K.

*Om dannelse av strukturmark.* (The Formation of Structural Ground.)

Norsk Geografisk Tidsskrift Vol. IX No. 3. 1942.

Oslo 1942. 19 Pages. With an English Summary.

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Barth, Tom F. W.

*Some Unusual Ground-Water Phenomena in Iceland.*

Norsk Geografisk Tidsskrift Vol. IX. No. 4. 1942.

Oslo 1942. 15 Pages.

---

Barth, Tom F. W.

*Ild og vann på Island.* (Fire and Water in Iceland.)

Naturen 1943.

Bergens Museum, Bergen 1943. 9 Pages.

This paper, as well as the preceding one, describes enormous floods caused by volcanic ice-melting, thermal springs, boiling ground-water «Hydrographical Windowns» and other ground-water phenomena.



V. Grunnvann og kilder — Eaux-souterraines  
et sources.

Gjørsv, O. A.

*Litt om tele.* (Some Information about frozen Soil Phenomena.)

Meddelelser fra Vegdirektøren No. 9. Oslo 1943. 5 Pages.

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Heje, Kolbjørn.

*Telehivningsarbeider på grunnlag av meteorologiske forhold i Norge.* (Frozen Soil Phenomena in Relation to Meteorological Conditions in Norway.)

Meddelelser fra Vegdirektøren No. 12. Oslo 1943. 11 Pages.

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Orvin, Anders K.

*Litt om kilder på Svalbard.* (About Springs in Spitzbergen.)

Norsk Geografisk Tidsskrift Vol. X. No. 1. 1944.

Oslo 1944. 22 Pages. With an English Summary.

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Holmboe, Carl Fredrik.

*Et grunnvannsanlegg for 2000 m<sup>3</sup> pr. time.*

(A Ground-water Supply Plant with a Capacity of 2000 m<sup>3</sup>/hour.)

Teknisk Ukeblad No. 10. 1949.

Oslo 1949. 4 Pages.

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Hydrologisk Bibliografi for  
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### VIII. Arbeider av almen interesse — Ouvrages généraux.

Skaven, Haug Sv.

*Frostmengdekart over Norge.* (Maps of Frost-quantities in Norway.)

Meddelelser fra Vegdirektøren No. 5. Oslo 1944.

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Holmsen, Gunnar.

*Leirfalltyper.* (Types of Clay-Slides.)

Meddelelser fra Vegdirektøren No. 2. Oslo 1946.

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Holmsen, Per.

*Om leirfallene i Norge og kvikkleirens betydning.*

(On Clay-Slides in Norway and the Importance of Quick-Clays.)

Meddelelser fra Vegdirektøren No. 2. Oslo 1946.

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Rosenquist, Ivan.

*Om leires plastisitet.* (On the Plasticity of Clays.)

Meddelelser fra Vegdirektøren No. 3. Oslo 1946.

With an English Summary. 5 Pages.

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Ahlman, H. W: Son.

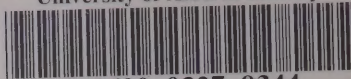
*Den Nutida Klimatfluktuationen och dess Utforskande.*

(The present Climate-fluctuation, and its Investigation.)

Norsk Geografisk Tidsskrift Vol. XI. 1947.

Oslo 1947. 36 Pages.

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